

Title (en)
DETECTORS AND ION SOURCES

Title (de)
DETEKTOREN UND IONENQUELLEN

Title (fr)
DÉTECTEURS ET SOURCES IONIQUES

Publication
EP 2156461 A2 20100224 (EN)

Application
EP 08718965 A 20080401

Priority

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Abstract (en)
[origin: WO2008125804A2] A FAIMS ion mobility spectrometer (1) has an analyte ion source assembly 4 by which an analyte substance is ionized and supplied to the inlet (2) of the spectrometer. The ion source assembly (4) has an upstream source (41) of clean, dry air and two ion sources (43 and 44) of opposite polarity arranged at the same distance along the flow path. The ion sources (43) and (44) are arranged so that the overall charge of the plasma produced is substantially neutral. The analyte substance is admitted via an inlet (61) downstream of the ion sources (43 and 44) and flows into a reaction region (63) of enlarged cross section to slow the flow and increase the time for which the analyte molecules are exposed to the plasma.

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